

SMUG

BYTES

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* SINCLAIR MILWAUKEE USERS GROUP *
* P.O. Box 101, Butler WI 53007 *

THIS MONTH:

- Lotto on the QL
- Editors Comments
- Some Programming Tips
- Presidents Message
- And Other Great Things

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NEXT MEETING DATE: 12/06/89

Send all contributions by the
3rd Wednesday of the month to:

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FOR ANY HARDWARE MODIFICATIONS TO YOUR EQUIPMENT.)

Lotto Program For The QL

This lotto program is a conversion of the one published in an earlier edition of this newsletter. This program is for the QL and disk drives. If you don't have or use disk drives change the flp2_ to mdv2_ or whatever your saving device is. There are some minor changes in the program as the QL SuperBasic works slightly differently.


The winning numbers are saved to disk but if you change this to microdrive you may have a size problem. I have not checked it out but the string holding the winning numbers is 2496 by 6 by 2. It will save a large area. But this will only happen after a large amount of data has been entered. I have a cutoff to only save what is necessary.

I also had to modify other instructions for the QL.

I have checked all the operations out but if anyone finds a problem I would appreciate being told of it. There are a few modifications I would like to make but I don't know when I will have the time. I hope to have this program, and a couple of others available for you at the fest/expo. All you will have to do is bring the media you would like to have us copy the programs on to. There will not be any charge for the programs. This lotto program is set up for 6 number pick with 54 being the top number. There is no real check to insure no number above is entered but everything is based on 54. It can be changed fairly simply but I will help if you need it.
"See you in Milwaukee" June 1-3, 1990.

10 GO TO 520

20 AT 0,0: PRINT k;" sheets","bets",k*

```
>
> 2nd The new Computer Store <
>
> BYTES  For Not-So-New <
>
> Computers <
>
>
>* SAVE THE HASSLE. have 2nd BYTES sell your <
> " unused " computer, peripherals and software. <
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>
>* WARRANTY. on almost all equipment we sell. <
> - We service what we sell. <
>
>
> 774-1155 <
>
> 9721 W. Greenfield Avenue West Allis WI 53214 <
>
>
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";k*6\,"spend $";k*3\\: FOR l=1 TO bet
30 IF fl1=1 THEN GO SUB 1260
40 FOR n=z TO count
50 LET t=INT (RND*number)+1
60 IF fl1=4 THEN LET a(1,n)=b(t): GO T
O 80
70 LET a(1,n)=g(t)
80 IF CODE (inky$)>48 THEN LET ps=((CO
DE (inky$))-48)*5
90 FOR x=1 TO n-1: IF a(1,n)=a(1,x)THE
N GO TO 50
100 NEXT x: IF INKEY$=' ' THEN GO TO 6
90
110 LET c(a(1,n))=c(a(1,n))+1: NEXT n:
GO SUB 190: AT 1+1+2,0: PRINT: NEXT l:
PAUSE ps: LET k=k+1: IF fl=1 THEN GO S
UB 680: GO TO 20
120 AT 16,0: PRINT "press 1) for more"
\"      2) to copy\"      3) for menu
"
130 LET inky$=""
140 LET inky$=INKEY$: IF inky$="" THEN
GO TO 140
150 IF inky$="1" THEN CLS: GO TO 20
160 IF inky$="2" THEN GO SUB 850
170 IF inky$="3" THEN GO SUB 1190: GO
TO 550
180 GO TO 120
190 FOR x=1 TO count-1: LET j=x: LET t
=a(1,x+1)
200 IF t>a(1,j)THEN GO TO 220
210 LET a(1,j+1)=a(1,j): LET j=j-1: IF
j>=1 THEN GO TO 200
220 LET a(1,j+1)=t: NEXT x: IF fl=3 TH
EN RETURN
230 FOR x=1 TO count: PRINT a(1,x);" "
;: IF fl=0 THEN IF p=10 THEN IF k<11 T
HEN LET d(((k-1)*6)+1,x)=a(1,x)
240 NEXT x: IF fl=0 THEN RETURN
250 GO SUB 450: AT 1+1+1,34
260 PRINT " match ";o: IF o>3 THEN GO
SUB 920
270 IF o>=p THEN LET a$="": FOR x=1 TO
count: LET a$=a$&(a(1,1))&" ": NEXT x:
OPEN #11,ser: PRINT #11,k*6;" *";a$;"
=>(";o;")": IF fl1=3 THEN CLOSE #11: R
ETurn
280 IF o=3 THEN LET three=three+1: AT
19,0: PRINT "3's=";three
290 IF o=4 THEN LET four=four+1: AT 19
,9: PRINT "4's=";four: GO SUB 1080
300 IF o=5 THEN LET five=five+1: AT 19
,18: PRINT "5's=";five: GO SUB 1080
310 IF o=6 THEN LET six=six+1: AT 19,2
7: PRINT "6's=";six: GO SUB 1080
320 RETURN
330 CLS: AT 10,0: PRINT "Enter the num

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SMUG Bytes

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bers which the"\"computer should pick
against"\\\\"enter the numbers one at
a time. Enter zero (0) for r
andom numbers"
340 w=2: o=0: RESTORE 520: AT 2,0: FOR
x=1 TO count
350 READ a$: AT 19,0: PRINT "enter ";a
$;" number (1 to ";number;" ) ";: INPUT
b(x): PRINT b(x)
360 IF fl=2 THEN IF b(x)=0 THEN GO TO
340
370 IF b(x)=0 THEN : GO TO 470
380 AT w,0: o=o+3: IF x=6 THEN w=w+1:
o=0
390 IF fl=2 AND fl1=2 THEN d(1,x)=b(x)
400 NEXT x
410 AT 3,0: PRINT ,,: IF fl=2 OR fl1=4
THEN RETURN
420 CLS: AT 2,0: PRINT ,,: FOR x=1 TO c
ount: a(1,x)=b(x): NEXT x
430 l=1: fl=3: GO SUB 190: AT 18,0: FO
R x=1 TO 6: PRINT a(1,x);" ";: NEXT x
440 AT 19,0: PRINT '
': PRINT "3's="
;three;" ": AT 19,9: PRINT "4's=";four
;" ": AT 19,18: PRINT "5's=";five;" ":
AT 19,27: PRINT "6's=";six;" ": AT 2,0
: fl=1: GO TO 20
450 o=0: FOR x=1 TO count: FOR n=1 TO
count: IF a(1,n)=b(x) THEN o=o+1
460 NEXT n: NEXT x: RETURN
470 AT 5,0: PRINT : FOR x=1 TO count
480 b(x)=INT (RND*number)+1: FOR n=1 T
O x-1: IF b(x)=b(n) THEN GO TO 480
490 NEXT n: PRINT b(x);" ";: IF x=6
THEN PRINT \
500 NEXT x: PAUSE 200: IF fl1=4 THEN
RETURN
510 GO TO 400
520 DATA "1st","2nd","3rd","4th","5th
","6th","7th","8th","9th","10th","11t
h","12th"
530 DIM b$(2496,6,2)
540 DIM d(60,6)
550 GO SUB 2080
560 CLS: AT 0,10: PRINT "LOTTO
NUMBERS"\"*****
*****": AT 3,0: PRINT "press:
"\\\" 1) for QUICK PICK"\"
2) for MIXED PICK"\" 3) for SYST
EM PICK"\" 4) for WINNING NUMBER
S"\" 5) for ODDS DEMO"\" 6
) to ENTER & VIEW PICKS"\" 7) to
CHECK WINNINGS"\" 8) to SAVE &
LOAD DATA"
570 inky$=""
580 inky$=INKEY$(0): IF inky$="" THEN

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GO TO 580
590 IF inky$="1" THEN GO TO 1010
600 IF inky$="2" THEN GO TO 1210
610 IF inky$="3" THEN GO TO 1270
620 IF inky$="4" THEN GO TO 1280
630 IF inky$="5" THEN GO TO 1490
640 IF inky$="6" THEN GO TO 1590
650 IF inky$="7" THEN GO TO 1940
660 IF inky$="8" THEN GO TO 820
670 GO TO 580
680 FOR f=2 TO 13: AT f,0: PRINT
      : NEXT f: RETURN
690 CLS: IF p=3 THEN
700   OPEN #11,ser
710 END IF
720 aa=0: FOR f=1 TO 54
730 PRINT f,c(f)
740 IF p=3 THEN PRINT #11,'#=';f;' # o
f matches=';c(f);' / ';
750 aa=aa+1
760 IF aa=4 THEN aa=0: PRINT #11,\
770 NEXT f: PRINT "\\k;" sheets"\k*6;"
  bets"\\"four = ";four\"five = ";five\"
  six = ";six
780 IF p=3 THEN
790   PRINT #11,\\"k;" sheets"\k*6;"
  bets"\\"four = ";four\"five = ";five\"
  "six = ";six: CLOSE #11
800 END IF
810 GO SUB 1450: GO TO 550
820 GO SUB 960
830 GO TO 550
840 AT 13,0: PRINT "RANDOMIZING NUMBER
S. please wait": RETURN
850 OPEN #11,ser
860 FOR l=1 TO bet
870 FOR x=1 TO count
880 PRINT #11,a(l,x);" ";
890 NEXT x: PRINT #11,\
900 NEXT l
910 CLOSE #11: RETURN
920 FOR v=1 TO 5
930 BEEP 50,50,50,0,8,8,8
940 NEXT v
950 RETURN
960 REMark load or save bs
970 CLS: PRINT "Enter 1 to save the w
inning numbers\"Enter 2 to load the
winning numbers"
980 inky$=INKEY$: IF inky$="" THEN GO
TO 980
990 IF inky$=1 THEN GO SUB 2190: RETu
rn
1000 IF inky$=2 THEN GO SUB 2350: RET
urn

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November 1989

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1010 k=1: fl=0: GO SUB 1020: GO SUB 11
10: GO TO 20
1020 GO SUB 840: GO SUB 1030: AT 16,0:
PRINT,,: RETURN
1030 GO SUB 1100: FOR x=1 TO number
1040 y=INT (RND*number)+1
1050 IF g(y)=0 THEN g(y)=x: GO TO 1070
1060 GO TO 1040
1070 NEXT x: s=1: RETURN
1080 y=g(number): FOR x=number TO 2 S
EP -1: g(x)=g(x-1): NEXT x: g(1)=y: s=
s+1: IF s=8 THEN GO SUB 1020
1090 RETURN
1100 FOR x=1 TO number: g(x)=0: NEXT x
: RETURN
1110 AT 17,0: PRINT "   Would you like
to enter the numbers\"   generated t
o the pick list? (y/n)"
1120 inky$=INKEY$: IF inky$="" THEN G
O TO 1120
1130 IF inky$=="y" THEN
1140   p=10
1150 ELSE
1160   p=1
1170 END IF
1180 s=9: CLS: RETURN
1190 IF p=10 THEN d(((k-1)*6)+1,1)=0
1200 RETURN
1210 CLS: GO SUB 2080
1220 AT 10,0: PRINT "Enter the number(
s) you wish to\"incorporateinto all p
icks.\"\\\"Enter zero (0) when finished"
: PRINT \": FOR z=1 TO 6: INPUT "enter
number from 1 to 54 >";e(z): PRINT e(
z);" ": IF e(z)=0 THEN GO TO 1240
1230 NEXT z
1240 fl1=1: IF fl=1 THEN RETURN
1250 CLS: GO SUB 840: GO SUB 1020: GO
SUB 1110: fl1=1: GO TO 20
1260 FOR x=1 TO z: a(l,x)=e(x): NEXT x
: RETURN
1270 k=1: count=12: fl1=4: CLS: AT 10,
0: PRINT "Enter 12 system numbers\"En
ter zero (0) for random pick": GO SUB
340: count=6: number=12: GO SUB 1110:
GO TO 20
1280 CLS: GO SUB 2080
1290 AT 5,0: PRINT "press\"\\\"1) To en
ter winning numbers\"\\\"2) For most win
ning numbers\"\\\"3) To view all winning
numbers\"\\\"4) Exit to main menu"
1300 inky$=""
1310 inky$=INKEY$: IF inky$="" THEN GO
TO 1310
1320 IF inky$="1" THEN GO TO 1370
1330 IF inky$="2" THEN GO TO 1400

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SMUG Bytes

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1340 IF inky$="3" THEN GO SUB 1440:CLS
1350 IF inky$="4" THEN GO TO 560
1360 GO TO 1290
1370 CLS: fl=2: AT 10,0: PRINT "Enter
the winning numbers one at a time.""\
Enter zero (0) to start all over if yo
u have made a mistake": GO SUB 340: GO
SUB 1460
1380 FOR n=1 TO count: b$(x,n)=b(n): N
EXT n: IF fl1=2 THEN RETURN
1390 GO TO 1280
1400 CLS: AT 5,0: PRINT "the most winn
ing numbers are:"\": GO SUB 1460: FOR
n=1 TO number: c(n)=0: NEXT n: z=x-1:
FOR l=1 TO number: AT 7,0: PRINT "chec
king for ";l: FOR n=1 TO z: FOR x=1 TO
count: IF b$(n,x)=l THEN c(l)=c(l)+1
1410 NEXT x: NEXT n: NEXT l: PRINT "\:
f=0: FOR x=1 TO 12: FOR n=1 TO number-
1: IF c(n)>f THEN f=c(n): z=n
1420 NEXT n: IF f=0 THEN GO SUB 1450:
CLS: GO TO 1290
1430 PRINT z;" = ";f;" times": c(z)=0:
f=0: NEXT x: GO SUB 1450: GO TO 1280
1440 CLS: GO SUB 1460: FOR n=1 TO x-1:
k=0: FOR l=1 TO bet: PRINT b$(n,l);"
";: k=k+4: NEXT l: PRINT \: NEXT n:
1450 AT 19,0: PRINT "Press key to cont
inue": PAUSE (-1): RETURN
1460 FOR x=1 TO 2496: IF b$(x,1)<="00"
OR b$(x,1)>"99" THEN GO TO 1480
1470 NEXT x
1480 FOR n=1 TO number: c(n)=0: NEXT n
: RETURN
1490 CLS: GO SUB 2080: AT 10,0: PRINT
"would you like to bend the odds?"\("y
/n)"
1500 yn$=""
1510 yn$=INKEY$: IF yn$="" THEN GO TO
1510
1520 IF yn$=="y" THEN fl=1: GO SUB 122
0
1530 CLS: AT 10,0: PRINT "If you wish
to have a printout of corectlymatched
numbers, turn on your printer now.""\
Would you also like to have all three
correctly matched numbers printed out
(y/n)?"
1540 yn$=""
1550 yn$=INKEY$: IF yn$="" THEN GO TO
1550
1560 IF yn$=="y" THEN p=3: GO TO 1580
1570 p=4
1580 CLS: GO SUB 1020: CLS: fl=1: GO T
O 330
1590 CLS
1600 AT 15,0: PRINT "1) to ENTER PICKS

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"\2) to ADD PICKS"\3) to VIEW PICKS"
\"4) to ERASE PICKS"\5) return to mai
n menu"
1610 inky$=""
1620 inky$=INKEY$: IF inky$="" THEN GO
TO 1620
1630 IF inky$="1" THEN l=0: GO TO 1690
1640 IF inky$="2" THEN GO TO 1780
1650 IF inky$="3" THEN GO TO 1750
1660 IF inky$="4" THEN GO TO 1810
1670 IF inky$="5" THEN GO TO 550
1680 GO TO 1590
1690 CLS: fl=2: fl1=2
1700 CLS: AT 10,0: PRINT "Enter your n
umbers one at a time": l=l+1: GO SUB 3
40: d(l+1,1)=0: AT 19,0: PRINT " more
(y/n)?" : inky$=""
1710 inky$=INKEY$(0): IF inky$="" THEN
GO TO 1710
1720 IF inky$=="y" THEN GO TO 1700
1730 IF inky$=="n" THEN GO TO 1600
1740 GO TO 1710
1750 CLS: AT 2,0: PRINT: FOR x=1 TO 60
: FOR n=1 TO count: PRINT d(x,n);" ";:
NEXT n: IF d(x+1,1)=0 THEN GO TO 1770
1760 PRINT \: NEXT x
1770 GO SUB 1450: GO TO 1600
1780 FOR x=1 TO 10: IF d(x,1)=0 THEN l
=x-1: GO TO 1800
1790 NEXT x: AT 2,0: PRINT "list fille
d, sorry": GO SUB 1450: GO TO 1600
1800 GO TO 1690
1810 CLS: FOR l=1 TO 10
1820 PRINT "erase ? (y/n)"\
1830 FOR x=1 TO count
1840 IF d(l,x)=0 THEN GO TO 1600
1850 PRINT d(l,x);" ";
1860 NEXT x
1870 inky$=INKEY$: IF inky$="" THEN GO
TO 1870
1880 IF inky$=="y" THEN GO SUB 1930: G
O TO 1820
1890 IF inky$=="n" THEN GO TO 1910
1900 GO TO 1870
1910 NEXT l
1920 GO SUB 1450: GO TO 1600
1930 FOR y=1 TO 9: FOR f=1 TO count: d
(y,f)=d(y+1,f): NEXT f: NEXT y: FOR y=
1 TO count: d(10,y)=0: NEXT y: PRINT "
<= erased"\: RETURN
1940 CLS: AT 10,0: PRINT "Enter winnin
g numbers": fl=2: fl1=0
1950 GO SUB 340: fl1=2
1960 GO SUB 1460
1970 GO SUB 1380
1980 fl1=3: CLS
1990 AT 1,0: PRINT "The winning number

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s have been added to the list of winning
numbers."\\\\"The winning numbers
are:"\\": FOR x=1 TO count: PRINT b(x)
;" ";
2000 NEXT x
2010 PRINT "\\\"your bets are"\\
2020 FOR f=0 TO 59 STEP 6
2030 FOR l=1 TO bet
2040 FOR n=1 TO count
2050 IF d(l+f,n)=0 THEN GO TO 2070
2060 a(l,n)=d(l+f,n): NEXT n: GO SUB 1
90: NEXT l: GO SUB 1450: PRINT "\\": NEX
T f
2070 PRINT "That's all folks": GO SUB
1450: GO TO 550
2080 fl=0: fl1=0: three=0: four=0: fi
ve=0: six=0: ps=100: o=0: k=1: w=0: z
=1: bet=6: count=6: number=54: DIM a(
6,6): DIM b(12): DIM c(54): DIM e(6):
DIM g(54): l=1: RETURN
2110 REMark cls: at 10,0: print "(S)av
ing or (L)oding DATA ??": pause (-1):
if inkey$=="s" then save flp2_winning_
bin: save flp2_bets_bin: go to 9020

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2160 REMark save program
2170 SAVE flp2_convert_lotto_0: stop
2190 REMark 1 will save winning #'s.
2200 q=10: CLS: v=0: PRINT "Saving";
2220 OPEN_NEW #7,flp2_Winner
2240 FOR n=1 TO 2496
2250 IF q>9 THEN PRINT ".,: q=0
2260 q=q+1
2270 IF b$(n,1)<" 1" THEN v=v+1
2280 IF v>1 THEN n=2496: GO TO 2320
2290 FOR m = 1 TO count
2300 PRINT #7,b$(n,m): NEXT m
2320 NEXT n: close # 7: RETURN
2350 REMark 2 will load winning #'s.
2360 q=10: CLS: v=0: PRINT "Loading";
2380 OPEN_IN #7,"flp2_Winners"
2400 FOR n=1 TO 2496
2410 IF q>9 THEN PRINT ".,: q=0
2420 q=q+1
2430 IF b$(n,1)<" 1" THEN v=v+1
2440 IF v>1 THEN n=2496: GO TO 2480
2450 FOR m = 1 TO count
2460 INPUT #7,b$(n,m): NEXT m
2480 NEXT n: close #7: return

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We sell real world software that does real work on a QL computer, much of which is tax deductible. There are business, financial and technical applications. Most operate under one of the PSION programs.

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Expanded and improved versions of TRUST_FUND 1.3, MAILBAG 2.0 and QLAND_LORD 1.3 are available for \$4.95 with the original medium. There's DBTutor, a flash-card program, and DBProgs with 5 useful Archive utilities. We have The_Transfer_V3, for HP compatible laser printing of DTP files and a range of other useful, hard-working software for the QL.

Order TAX-I-QL/89 by November 22 to get a \$19.95 early-bird discount.

PSION's PC-FOUR for MS-DOS computers is only \$99.95.
(Ever see Easel output to an HP Plotter?)

We create much of our own software but we market software by other programmers. Please call/write for details about our arrangements.

Send for our catalogue which explains things in detail.

EMSoft, P.O. Box 8763, Boston MA 02114 (617) 889-0830

TS-2068/QL Tips

Here are some tips for the TS2068 that SMUG has accumulated through the years that we would like to pass on. The first ones are for the TS2068 and its possible the TS1000, TS1500 and ZX80-81.

When writing programs be careful when changing variables. If you have defined a variable and have run the job the variable will be there until you do a CLEAR. Our computer allows variables to hold their values even after the variable has been deleted. In most computers the variables are dropped if the program stops executing. This means if you change from a\$ to aa\$ a\$ will still be there in our computer.

If you want to change the size of a dimension you can do a run. But if you want to clear the dimension with out clearing other variables just re-dimension the variable. For example DIM a\$(5,10) sets up a dimension of 5 sets of 10 bytes each. After running you have data in the DIM. Just do a DIM a\$(5,10) in the command mode. All data will be cleared. If you want to Reduce the size without runing the program do a DIM a\$(0,0), clearing the dimension and removing the larger extents. Now re-dimension in command mode and you should have the new size available to you.

If you are using ON ERROR, once you have turned it on it stays on. If you want to remove it CLEAR the computer before deleting the line. Then delete the line using the DELETE command rather than just typing in the line #. If you type the line # the variable table will still contain the line # and the ON ERROR will still execute.

QL tip. When using the IF beware! The shortend version allows for statements on the same line as the if. But DO NOT use an END IF. If using the long version or an ELSE within the IF you must use the END IF. When using the END IF you CAN NOT have more than 1 statement on a line. This includes having anything on the same line as the then or else.

2 NEW RELEASES FROM

****> RMG ENTERPRISES <****

HERE ARE 2 NEW RELEASES FROM THE WRITING TEAM OF JEAN AND BRANSON WILCOX. We hope that you will give, them a try and help support our 2068 software producers!

YACHT

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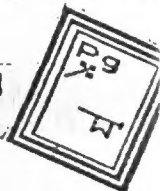
Remember the old dice poker game? Here is a great rendition of it for you to run on your 2068.

Introductory priced at:

ONLY \$12.95 plus \$2. PH



TAROT



This one is for all of you TAROT card enthusiasts. I really have not seen a better program of its type for the 2068. It is fun to get your readings done by THE AMAZING

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Some Editorial Comments

I have noticed a few comments in the newsletters about not receiving any information from the national. Well we received the ballot and in October we received a post card from the National Public Domain library. We have seen the Indiana newsletter about Mel being sick and having to resign but there has not been any official word. I feel that the national is a good thing but I don't understand why nothing is said by those in the know. I am sure all of us newsletter editors would mention any word about the national. The only thing is that it must come from an officer of SNUG.

One other thing. We got to thinking about membership. If we get a User Group membership should each member of the group also get a membership? This might be what SNUG is looking for.

Also Computer Shopper, through the FOG user group, is printing user groups in the world. The only requirement is that you verify you are still there, every three months. There address is:

FOG User Group Listing
P.O. Box 3474
Daly City CA 94015-0479

I have found two TS user groups that I haven't heard from in a long time and one I have never heard from before. Here they are, if you are interested:

N.E. Timex Sinclair User Group
(NEF TSUG) c/o John Kuhn, 1707 King Street, Jacksonville FL and
Fort Worth T/S Users Group
c/o David Baulch, 4425 Geddes Avenue, Fort Worth TX 76107

The new group is:

Quantum Leap User Group
c/o Gale Henslee, 4411 2nd Avenue, Amarillo TX 79106

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PRESIDENTS MESSAGE

The documentation is done and ordered boards have been shipped. If anyone has ordered and payed for a board and has not received it by Christmas please contact us. The shipping is being done by U.S. mail and as we all know sometimes...

I want to thank Dick and Marty for their help in making this project work. Dick has been the focal point of the project. This includes designing the board, making the proto type and keeping track of all who are interested in the board. Marty acted as the technical adviser and is building the complete boards for sale. Marty also did the excellent job on the documentation on putting the board together. There was some minor help by Bill and Myself.

G I G O Or In Otherwords The Meeting

This was a good meeting with even two guests. They were Jay Seal and Nazir Pashtoon from the Chicago area. They came to order a digitizer board and demonstrate the way they use CPM on the TS2068 with the Zebra drive system. We were happy to see them and have their informative talk. Maybe we have a speaker and subject for the Computer Expo on Sunday June 2, 1990.

Marty showed us his digitizer documentation. He will include it with all the boards being shipped.

Bill reported on the costs of having T shirts printed. Gordon informed us that someone has a form for making T shirt transfers using the lazer printer. He will get costs for the next meeting. If that works out we can make them to order somewhat.

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We are a not-for-profit group devoted to serving the interests of those who own, use, and/or are interested in the Timex/Sinclair family of computers.

Editor and contact person is:
Bill Heberlein (414) 527 2191.

SMUG maintains a gratis exchange of newsletters with approximately 30 Users Groups across the U.S. and Canada. Clubs not sending newsletters for more than 6 months are removed from our mailing list.

Newsletter subscription is available for only \$10 per year to non members or free with a club membership. A club membership is \$20 per year for a family membership.

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The next meeting of SMUG will be held on:

Wednesday, December 6, 1989

6pm Set Up
6:30 Members Demo
7:30 Business Meeting
8:30 Lotto Program Demo
10:30 Clean Up

Location:

Equitable Savings and Loan,
145th and Capital Drive,
Milwaukee Wisconsin

November 1989

10

SMUG Bytes